T 49.89/2: 85 (15) map B4

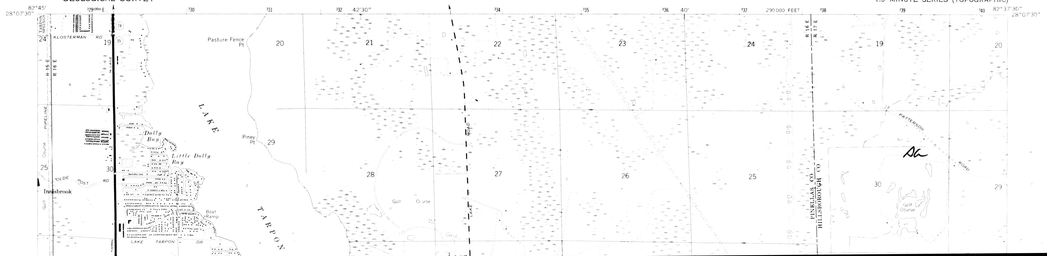
I 49.89/2:85(15)map 84

ORIGINAL

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

STATE OF FLORIDA

OLDSMAR QUADRANGLE
FLORIDA
7.5 MINUTE SERIES (TOPOGRAPHIC)

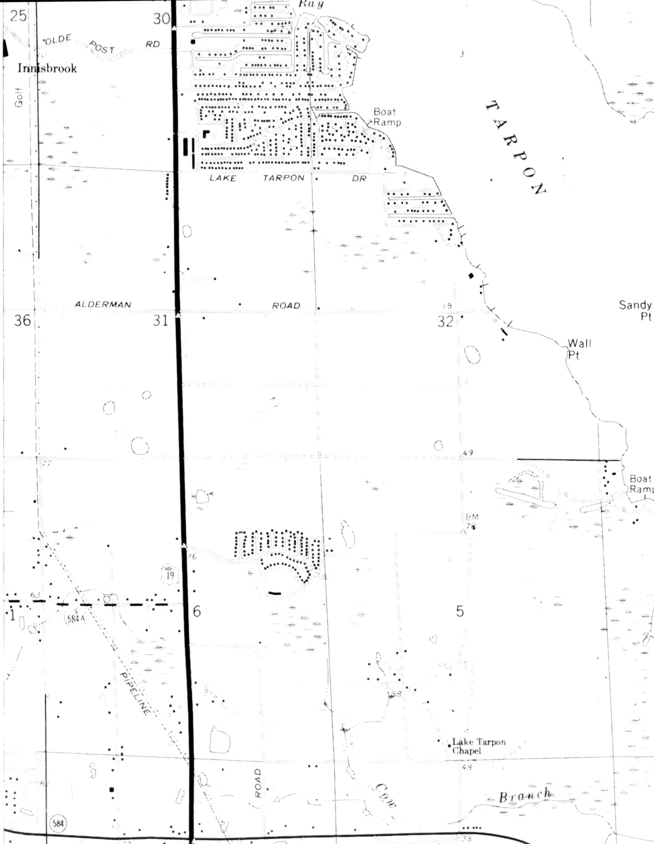


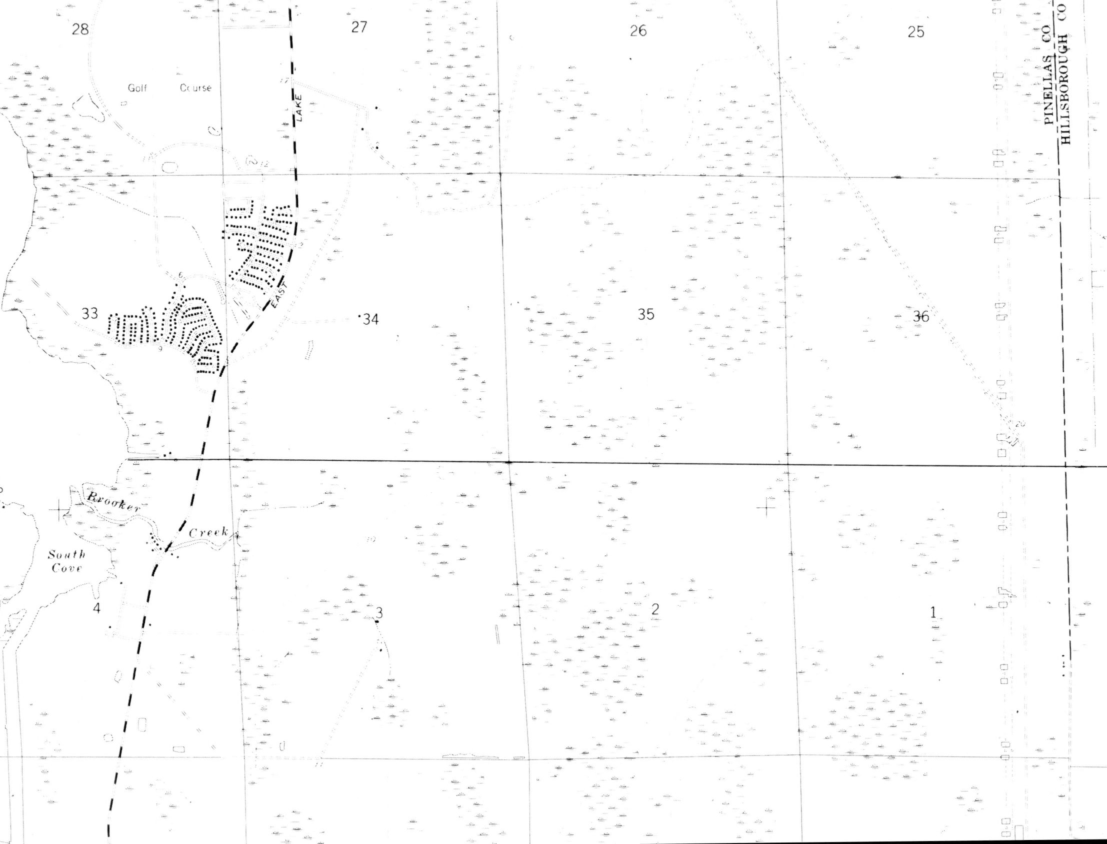
MAP 84

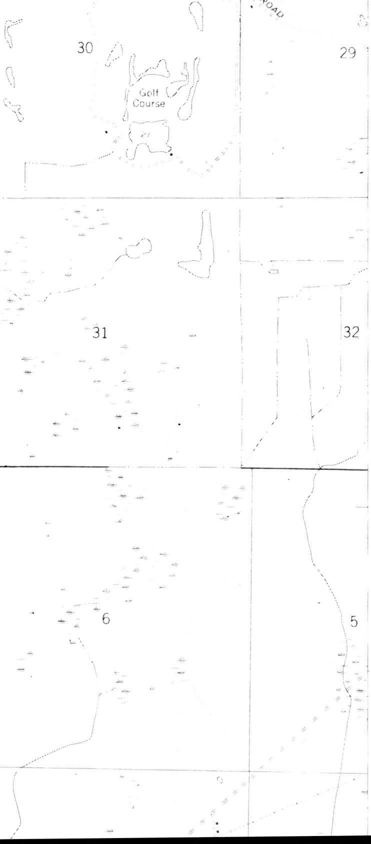
TAMPA BAY ENVIRONMENTAL ATLAS

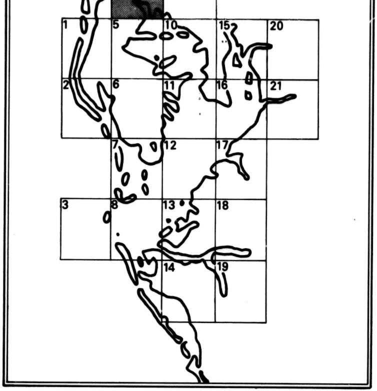
WATER RESOURCES

OLDSMAR


Bay
25
30
OLDE POST RD
Innisbrook
Golf
Boat Ramp
TARPON
LAKE TARPON DR
ALDERMAN ROAD
36
31
32
Sandy Pt
Wall Pt
49
Boat Ramp
BM 78
19
63
1
584A
6
5
PIPELINE
58
Lake Tarpon Chapel
48
ROAD
Cow
Branch
584


28
27
26
25
Golf Course
LAKE
EAST
PINELLAS CO
HILLSBOROUGH CO
33
34
35
36
Brooker
Creek
South Cove
4
3
2
1


ROAD
30
29
Golf Course
27
31
32
6
5


1
5
10
15
20
2
6
11
16
21
7
12
17
3
8
13
18
14
19

Scale 1:24,000

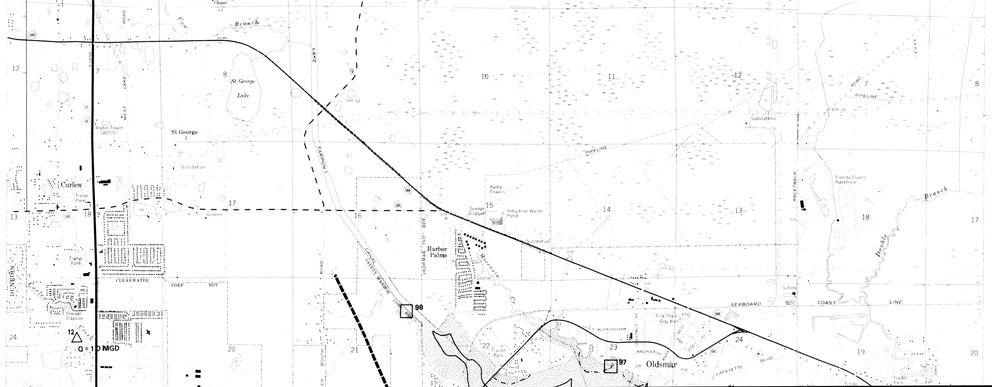
U.S. DEPARTMENT OF THE INTERIOR
MARCH 3, 1849

1984

TOPICAL MAPS IN THIS ATLAS:
A. BIOLOGICAL RESOURCES
B. WATER RESOURCES

Produced by U.S. Fish and Wildlife Service
Projection and 1,000 meter grid, zone 17: Universal Transverse Mercator
10,000-foot grid ticks based on Florida coordinate system, east and west zones

Overlay material compiled in 1984 from latest available data obtained from Federal, State and Local government agencies and other sources.



10,000-foot grid ticks based on Florida coordinate system, east and west zones.

Overlay material compiled in 1984 from latest available data obtained from Federal, State and Local government agencies and other sources.

There is no map A19 due to a lack of data.

LEGEND

35 MEAN ANNUAL MID-DEPTH SPECIFIC CONDUCTIVITY ISOPLETH (WATER QUALITY) CONTOUR MAP
Five year mean annual specific conductivity September 1978 - August 1983 (mmhos)

POINT SOURCE DISCHARGES *

10 Q= ___ Industrial Point Source Discharge. Q is permitted capacity in total gallons per day (tgd) or in millions of gallons per day (mgd).

10 Q= ___ Municipal Point Source Discharge. Q is permitted capacity in total gallons per day (tgd) or millions of gallons per day (mgd).

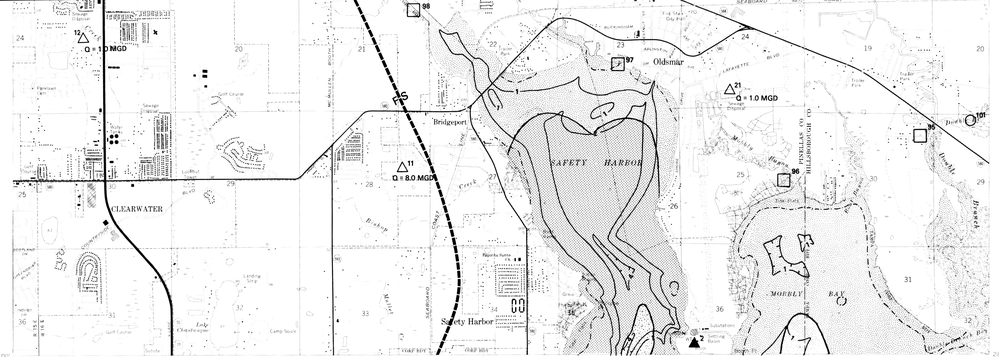
DREDGE SPOIL DISPOSAL SITES

TIDE STATION *
(National Ocean Service)

10 Active tide station. The tide station number is listed next to the symbol.

10 Inactive tide station location. The tide station number is listed next to the symbol.

10 WATER QUALITY SAMPLING STATION *
(Hillsborough County Environmental Protection Commission)



Active tide station. The tide station number is listed next to the symbol.

Inactive tide station location. The tide station number is listed next to the symbol.

WATER QUALITY SAMPLING STATION
(Hillsborough County Environmental Protection Commission)
Five year seasonal means, Sept. 1978 - Aug. 1983

BATHYMETRY

The contour interval is 2.0 meters with an initial 1.0 meter supplemental contour line added to better define shoals and inshore tidal flats.

INTERTIDAL ZONE

This zone demarcates the area exposed and flooded by the tides and occurs between the line and the shore.

GENERALIZED SEDIMENT MAP

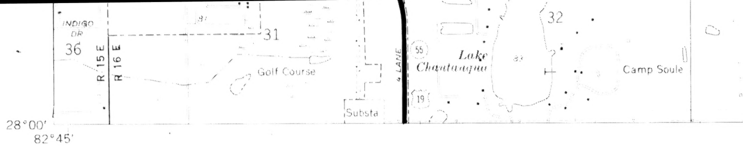
- Sand
- Shelly Sand
- Silty Sand
- Clayey Sand
- Sandy Clay
- Silt

NET TIDAL CURRENT

Resultant tidal current. The direction is indicated by the arrow and the discharge range is feet per second

- 0.01 - 0.10 ft/sec
- 0.11 - 0.20 ft/sec
- 0.21 - 0.30 ft/sec
- 0.31 - 0.50 ft/sec
- >= 0.50 ft/sec

FRESHWATER/SALTWATER INTERFACE
(U.S. Geological Survey 1979)
350 mg/l line of equal chloride


INDIGO DR
36
R 15 E
R 16 E
31
Golf Course
Substa
4 LANE
55
19
Lake Chautauqua
32
Camp Soule
28°00'
82°45'

THE TAMPA BAY ENVIRONMENTAL ATLAS WAS PRODUCED BY THE U.S. FISH AND WILDLIFE SERVICE, DIVISION OF BIOLOGICAL SERVICES NATIONAL COASTAL ECOSYSTEMS TEAM (FWS/OBS) FOR COASTAL PLANNERS, DECISION MAKERS AND THE GENERAL PUBLIC, TO DETERMINE AND EVALUATE CHANGE AND TO RESOLVE CONFLICTS AMONG LAND USES, FISH AND WILDLIFE REQUIREMENTS, AND THE MAINTENANCE OF ECOLOGICAL DIVERSITY. THE STUDY AREA INCLUDES A MAJOR PORTION OF THE COASTAL COUNTIES OF PINELLAS, HILLSBOROUGH, MANATEE, AND A SMALL PORTION OF SARASOTA. THERE IS NO ATTEMPT, IN THE DESIGN OR PRODUCTS OF THIS STUDY, TO DEFINE THE LIMITS OF PROPRIETARY JURISDICTION OF ANY FEDERAL, STATE, OR LOCAL GOVERNMENT TO ESTABLISH THE GEOGRAPHICAL SCOPE OF THE REGULATORY PROGRAMS OF GOVERNMENT AGENCIES.

THIS MAP HAS BEEN COMPILED FROM A VARIETY OF SOURCE MATERIALS INCLUDING MAPS, AERIAL PHOTOS, AND REPORTS. SINCE MANY SOURCES CONTAINED GENERALIZED LOCATIONS OF RESOURCES AND OTHER MAPPED FEATURES, THE USER SHOULD NOT RELY ON THESE MAPS FOR PRECISE MEASUREMENTS OF DISTANCES OR AREAS.

PRIMARY SOURCES OF MAPPED INFORMATION

SALINITY: Conductivity for Tampa Bay water quality sampling stations Sept. 1978 - August 1983. Hillsborough County Environmental Protection Commission.

POINT SOURCE DISCHARGES: Computer printout of industrial and municipal point source discharges in West Central Florida. Florida Dept. of Environmental Regulation, 1983.

DREDGE SPOIL DISPOSAL AREAS: Dredge and Spoil easement location maps. Florida Dept. of Natural Resources.

N.O.S. TIDE STATIONS: Index of tide stations for the state of Florida. National Ocean Service, Rockville, Md. 1981.

WATER QUALITY: Total chlorophyll, conductivity, turbidity, temperature and total nitrogen data for Tampa Bay water quality stations, Sept. 1978 - August 1983. Hillsborough County Environmental Protection Commission.

BATHYMETRIC: Bathymetric map to St. Petersburg Quadrangl N.O.S. 1978.

INTERTIDAL ZONE: Nautical Chart #'s 11410, 11413, 11414 11425. N.O.S., Rockville, Md. 1983.

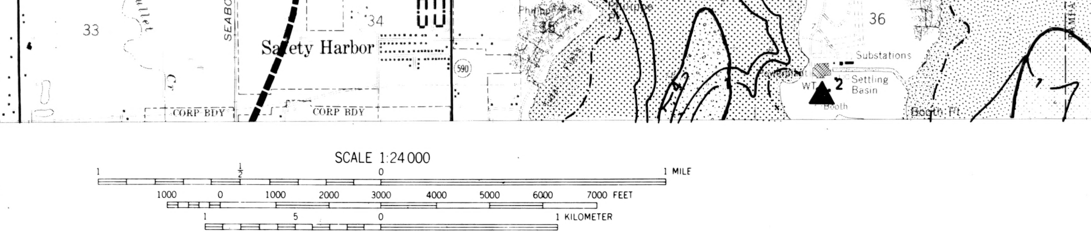
SEDIMENTS: Sediments, oceanographic observations and Floristic data for Tampa Bay, Florida and adjacent waters, 1961-1965, Taylor and Saloman, 1969.

TIDAL CURRENTS: Changes in tidal flow, circulation and flusl caused by dredge and fill in Tampa Bay, Florida. U.S. Geological Survey Open File Report #84-447. Goodwin, 1984.

FRESHWATER-SALTWATER INTERFACE: Position of the Freshwater-Saltwater interface in the upper part of the Floridan aquifer, Southwest Florida, 1979. U.S.G.S. water resources open-file report 82-90. Causseaux and Fretwell, 1982.

FOR COMPLETE REFERENCE SEE MAP NARRATIVE

MICROCOPY RESOLUTION TEST CHART
NBS - 1010a
(ANSI and ISO TEST CHART No. 2)
1.0
1.1


33
SEABO
Cr
34
Safety Harbor
CORP BDY
CORP BDY
590
Phillippe Park
35
Phillippe Pt
36
Substations
Pavement
WT
2
Settling Basin
Booth
Booth Pt.
SCALE 1:24 000
1
1/2
0
1 MILE
1000
0
1000
2000
3000
4000
5000
6000
7000 FEET
1
5
0
1 KILOMETER

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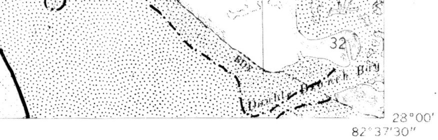
and

hing


32
Bay
Double Branch Bay
28°00'
82°37'30"

→ 0.01 - 0.10 ft/sec

→ 0.11 - 0.20 ft/sec

→ 0.21 - 0.30 ft/sec

→ 0.31 - 0.50 ft/sec

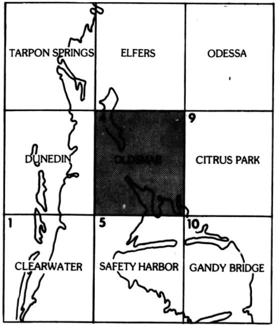
→ >0.50 ft/sec

F
▬ ▬ ▬ ▬
S

FRESHWATER/SALTWATER INTERFACE

(U.S. Geological Survey 1979)
250 mg/l line of equal chloride
concentration in the upper part
of Floridan aquifer.

**Symbols appearing with numbers are described more fully in the narrative*


TARPON SPRINGS
ELFERS
ODESSA
4
9
DUNEDIN
OLDSMAR
CITRUS PARK
1
5
10
CLEARWATER
SAFETY HARBOR
GANDY BRIDGE

Supplemental Legend for Water Quality Stations on This Map

Station #101 **Lat. 28°01'32"** **Long. 82°37'56"**

PARAMETER	SPRING (3-5)	SUMMER (6-8)	FALL (9-11)	WINTER (12-2)	ANNUAL (1-12)
Total Chlorophyll (ug/l)	14.7	16.3	23.1	10.7	16.2
Conductivity (mmhos)	16770	16227	14872	15994	15966
Turbidity (NTU'S)	7.5	8.7	5.1	4.3	6.4
Temperature (°C)	22.8	28.3	24.5	15.6	22.8
Total Nitrogen (mg/l)	1.16	1.32	1.22	1.06	1.19

Note: Specific conductivity values on the supplemental legend should be in µmhos.

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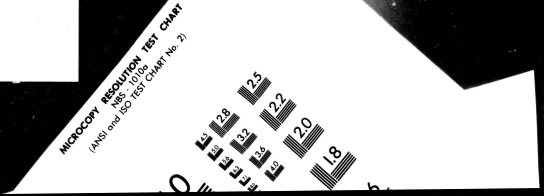
MICROCOPY RESOLUTION TEST CHART
NBS - 1010a
(ANSI and ISO TEST CHART No. 2)


2.5
2.8
2.2
3.2
2.0
3.6
4.5
5.0
5.6
6.3
7.1
8.0
4.0
1.8

L10
L11
L12.5
L14
L16

L10
L11
L12.5
L14
L16